

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-2. (Cancelled).

Claim 3. (Currently Amended) The two wheel vehicle ~~A drive control apparatus~~ as set forth in claim [[2]] 6, wherein:

said first drive mechanism and said second drive mechanism generate a first drive signal for driving said first wheel and a second drive signal for driving said second wheel based on at least one of a state of said vehicle and a control instruction,

said drive control apparatus further has a third drive mechanism configured to generate a third drive signal for judgment of abnormalities corresponding to said first drive signal and said second drive signal based on at least one of the state of said vehicle and said control instruction, and

said abnormality detecting mechanism is configured to detect operational abnormalities of said first drive mechanism and said second drive mechanism based on matching of said first drive signal, said second drive signal, and said third drive signal at each of said independent detection systems.

Claim 4. (Currently Amended) The two wheel vehicle ~~A drive control apparatus~~ as set forth in claim 3, wherein:

said first drive mechanism and said second drive mechanism generate said first drive signal and said second drive signal so that a designated difference corresponding to a rotational speed of said vehicle arises in drive forces given to said first wheel and said second wheel, and

said abnormality detecting mechanism being configured to detect operational abnormalities in said first drive mechanism and said second drive mechanism based on coincidence and noncoincidence between said first drive signal and said second drive signal minus effects due to said difference and said third drive signal.

Claim 5. (Currently Amended) The two wheel vehicle ~~A drive control apparatus~~ as set forth in claim [[1]] 6, further having an alarm outputting mechanism configured to output an alarm when an abnormality is detected by said majority decision mechanism.

Claim 6. (Original) A two-wheeled vehicle comprising:

- a first wheel and a second wheel configured to rotate about shafts orthogonal to a direction of progression,
- a first drive mechanism configured to drive said first wheel,
- a second drive mechanism configured to drive said second wheel,
- an abnormality detecting mechanism configured to detect operational abnormalities of said first drive mechanism and said second drive mechanism by an odd number of at least three independent detection systems,
- a majority decision mechanism configured to detect abnormalities in said first drive mechanism and said second drive mechanism by majority decision based on detection results of detection of operational abnormalities by said abnormality detecting mechanism by said odd number of independent detection systems, and
- a drive stopping mechanism configured to stop a drive action of at least one of said first drive mechanism and said second drive mechanism when an abnormality is detected by said majority decision mechanism.

Claims 7-12. (Cancelled).

Claim 13. (Currently Amended) The two wheel vehicle ~~A drive control apparatus~~ as set forth in claim [[12]] 16, wherein:

said first drive means and said second drive means generate a first drive signal for driving said first wheel and a second drive signal for driving said second wheel based on the state of said vehicle or an instruction;

said drive control apparatus further has a third drive means for generating a third drive signal for judgment of abnormalities corresponding to said first drive signal and said second drive signal based on at least one of a state of said vehicle and a control instruction; and

said abnormality detecting means detects operational abnormalities of said first drive means and said second drive means based on matching of said first drive signal, said second drive signal, and said third drive signal at each of said independent systems.

Claim 14. (Currently Amended) The two wheel vehicle ~~A drive control apparatus~~ as set forth in claim 13, wherein:

said first drive means and said second drive means generate said first drive signal and said second drive signal so that a designated difference corresponding to a rotational speed of said vehicle arises in drive forces given to said first wheel and said second wheel; and

said abnormality detecting means detects operational abnormalities in said first drive means and said second drive means based on coincidence and noncoincidence between said first drive signal and said second drive signal minus effects due to said difference and said third drive signal.

Claim 15. (Currently Amended) The two wheel vehicle ~~A drive control apparatus~~ as set forth in claim [[11]] 16, further having an alarm outputting means for outputting an alarm when an abnormality is detected by said majority decision means.

Claim 16. (Original) A two-wheeled vehicle having:

- a first wheel and a second wheel configured to rotate about shafts orthogonal to a direction of progression;
- a first drive means for driving said first wheel;
- a second drive means for driving said second wheel; an abnormality detecting means for detecting operational abnormalities of said first drive means and said second drive means by an odd number of at least three independent detection systems;
- a majority decision means for detecting abnormalities in said first drive means and said second drive means by majority decision based on detection results of detection of operational abnormalities by said abnormality detecting means by said odd number of detection systems; and
- a drive stopping means for stopping said drive action of a wheel by a drive means for which an abnormality is detected by said majority decision means among said first drive means and said second drive means.